AUTHOR INDEX

Volumes 23 to 26—1959 to 1962

Albrink, Wilhelm S., 1961, **25,** 268–273
Andrews, Justin M., 1961, **25,** 362–377
Angus, T. A., 1960, **24,** 266–288
Attardi, Giuseppe, 1959, **23,** 213–223
Austrian, Robert, 1960, **24,** 261–265

Bang, Frederik B., 1961, **25,** 228–236
Barksdale, Lane, 1959, **23,** 202–212
Beck, Patricia N., 1961, **25,** 152–161
Benacerraf, Baruj, 1960, **24,** 35–40
Benenson, Abram S., 1961, **25,** 285–293
Bennett, Ivan L., Jr., 1960, **24,** 16–34
Bergersen, F. J., 1960, **24,** 246–250
Beutner, Ernst H., 1961, **25,** 49–76
Bibby, Basil G., 1961, **25,** 131–141
Blair, John E., 1962, **26,** 375–381
Bridges, Robert A., 1960, **24,** 115–132
Briody, Bernard A., 1959, **23,** 61–95
Britten, Roy J., 1962, **26,** 292–335
Brock, Thomas D., 1961, **25,** 32–48
Bryant, Marvin P., 1959, **23,** 125–153
Burk, Dean, 1961, **25,** 447–456
Burton, Kermit A., 1962, **26,** 382–397

Carnahan, James E., 1962, **26,** 42–50
Chance, H. L., 1959, **23,** 254–260
Clayton, Roderick K., 1962, **26,** 151–164
Cluff, Leighton E., 1961, **25,** 362–377
Cohn, Melvin, 1959, **23,** 213–223
Cohn, Zanvil A., 1960, **24,** 96–105
Condie, Richard M., 1960, **24,** 115–132
Cox, Herald R., 1961, **25,** 383–388

Davenport, Fred M., 1961, **25,** 294–300
Dingle, John H., 1961, **25,** 362–377
Dmochowski, Leon, 1959, **23,** 18–40

Edwards, Philip R., 1959, **23,** 155–174
Eichenwald, Heinz F., 1961, **25,** 274–281
Elberg, Sanford S., 1960, **24,** 67–95
Evans, Charles A., 1960, **24,** 341–352

Fasso, Lois A., 1961, **25,** 274–281
Fife, Mary A., 1959, **23,** 155–174
Fletcher, Donald W., 1960, **24,** 397–416
Floodgate, G. D., 1962, **26,** 277–291
Francis, Thomas, Jr., 1961, **25,** 362–377
Friedman, Herman, 1960, **24,** 309–339
Furcolow, Michael L., 1961, **25,** 301–309

Gest, Howard, 1962, **26,** 51–66
Gilmour, Marion N., 1961, **25,** 131–141, 142–151, 152–161
Ginsberg, Harold S., 1960, **24,** 141–150
Glassman, Harold N., 1961, **25,** 362–377
Gochenour, William S., 1961, **25,** 285–293
Good, Robert A., 1960, **24,** 115–132
Goodlow, Robert J., 1961, **25,** 182–187
Gowen, John W., 1960, **24,** 192–200
Graham, Angus F., 1959, **23,** 224–231

Hahon, Nicholas, 1961, **25,** 459–476
Halvorson, H. Orin, 1959, **23,** 267–272
Harris, Henry, 1960, **24,** 3–15
Hartsell, Stanley E., 1959, **23,** 250–253
Haskins, Willard T., 1961, **25,** 427–436
Hatch, Theodore F., 1961, **25,** 237–240
Heimpel, A. M., 1960, **24,** 266–288
Henderson, David W., 1960, **24,** 167–176
Hirsch, Herbert M., 1962, **26,** 336–353
Hirsch, James G., 1959, **23,** 48–60
—, 1960, **24,** 133–140
Horibata, Kengo, 1959, **23,** 213–223
Howell, Arden, Jr., 1961, **25,** 131–141, 162–171
Hungate, Robert E., 1960, **24,** 353–364

Ingraham, J. L., 1959, **23,** 97–108
Ivánovics, George, 1962, **26,** 108–118

Jordan, D. C., 1962, **26,** 119–141

Kass, Edward H., 1960, **24,** 177–185
Kotsevalov, Olga, 1961, **25,** 274–281

Lamanna, Carl, 1961, **25,** 323–330
Landy, Maurice, 1961, **25,** 427–436, 437–446, 447–456
Langmuir, Alexander D., 1961, **25,** 173–181, 356–358, 362–377
Lees, Howard, 1962, **26,** 165–167
Lennox, Edwin S., 1959, **23,** 213–223
Leonard, Frederic A., 1961, **25,** 182–187
Levine, Hillel B., 1961, **25,** 310–320
Lichstein, Herman C., 1959, **23,** 261–266
Lockhart, W. R., 1959, **23,** 8–17
Lwoff, André, 1959, **23,** 109–124

MacLennan, John D., 1962, **26,** 177–274
MacLeod, Colin M., 1960, **24,** 2
Mandelstam, J., 1960, **24,** 289–308

Marcus, Philip I., 1959, **23,** 232–249
McClure, F. T., 1962, **26,** 292–335
McCrumb, Fred R., Jr., 1961, **25,** 262–267
McDermott, Walsh, 1961, **25,** 362–377
Meyer, Karl F., 1961, **25,** 249–261
Michael, J. Gabriel, 1961, **25,** 437–446
Middlebrook, Gardner, 1961, **25,** 331–346
Milner, Kelsey C., 1961, **25,** 427–436
Moat, Albert G., 1960, **24,** 309–339
Mortenson, Leonard E., 1962, **26,** 42–50
Mower, Howard F., 1962, **26,** 42–50

Nagai, H., 1961, **25,** 404–426
Nagai, S., 1961, **25,** 404–426
Nason, Alvin, 1962, **26,** 16–41
Nelson, Norton, 1961, **25,** 362–377
Nicastri, Anthony, 1960, **24,** 16–34
Nilsson, Gerda, 1959, **23,** 41–47

Oeding, Per, 1960, **24,** 374–396
O'Leary, William M., 1962, **26,** 421–447
Ormerod, John G., 1962, **26,** 51–66

Pappagianis, Demosthenes, 1961, **25,** 310–320
Peck, H. D., Jr., 1962, **26,** 67–94
Perkins, William A., 1961, **25,** 347–355
Petty, Milton A., 1961, **25,** 111–130
Pine, Leo, 1961, **25,** 162–171
Porter, J. R., 1961, **25,** 389–403

Ramsey, Carolyn H., 1959, **23,** 155–174
Ravin, Arnold W., 1960, **24,** 201–220
Ribi, Edgar, 1961, **25,** 427–436
Richmond, M. H., 1962, **26,** 398–420
Riley, Richard L., 1961, **25,** 243–248
Rogers, David E., 1960, **24,** 50–66
Rothstein, Aser, 1959, **23,** 175–201
Rotman, Boris, 1960, **24,** 251–260
Rowe, Wallace P., 1961, **25,** 18–31
Rowley, Derrick, 1960, **24,** 106–114
Rubin, Harry, 1962, **26,** 1–13

Saito, Margaret, 1961, **25,** 310–320
Salton, M. R. J., 1961, **25,** 77–99
Schneider, Howard A., 1960, **24,** 186–191
Senez, Jacques C., 1962, **26,** 14–15
—, 1962, **26,** 95–107
Skinner, Charles E., 1960, **24,** 397–416
Smith, Charles E., 1961, **25,** 310–320
Stanier, R. Y., 1961, **25,** 1–17
Starkey, Robert L., 1962, **26,** 142–144
Steinhaus, Edward A., 1960, **24,** 365–373
Stetson, Chandler A., Jr., 1961, **25,** 457–458
Stokes, J. L., 1959, **23,** 97–108
Strange, R. E., 1959, **23,** 1–7
Sulkin, S. Edward, 1961, **25,** 203–209

Tigertt, W. D., 1962, **26,** 354–373
Tigertt, William D., 1961, **25,** 285–293
Trudinger, Philip A., 1962, **26,** 168–175

Umbreit, W. W., 1962, **26,** 145–150

Vaughan, L. M., 1961, **25,** 347–355
Vishniac, Wolf, 1962, **26,** 168–175

Wagner, Robert R., 1960, **24,** 151–166
—, 1961, **25,** 100–110
Wedum, Arnold G., 1961, **25,** 210–216
Whitby, James L., 1961, **25,** 437–446, 447–456
Wickerham, Lynferd J., 1962, **26,** 382–397
Wolfe, Elwood K., Jr., 1961, **25,** 194–202
Wood, W. Barry, Jr., 1960, **24,** 41–49
—, 1961, **25,** 362–377
Woods, Mark W., 1961, **25,** 437–446, 447–456
Wright, George W., 1961, **25,** 219–227

Yanagishima, N., 1961, **25,** 404–426
Yanofsky, Charles, 1960, **24,** 221–245

Zentner, Robert J., 1961, **25,** 188–193

SUBJECT INDEX

Volumes 23 to 26—1959 to 1962

Aerosol, infection of man, with *Pasteurella tularensis*, 1961, **25,** 262–267
—, techniques for formation of, 1961, **25,** 188–193
Aerosols, quantitative characterization of, 1961, **25,** 194–202
Airborne coccidioidomycosis, 1961, **25,** 310–320
— histoplasmosis, 1961, **25,** 301–309
— infection, control of, in laboratory, 1961, **25,** 210–216
— —, critique of Conference on, 1961, **25,** 362–377
— —, epidemiology of, 1961, **25,** 173–181
— —, inhalation of toxins in, 1961, **25,** 323–330
— —, public health aspects of, **25,** 347–358
— —, reactions to inhaled antigens in, 1961, **25,** 331–346
— microorganisms, viability and infectivity of, 1961, **25,** 182–187
— pulmonary tuberculosis, 1961, **25,** 243–248
— Q fever, 1961, **25,** 285–293
Amino acid analogues, chemical structure of, 1962, **26,** 398–420
— — —, effect on growth and protein synthesis in microorganisms, 1962, **26,** 398–420
— — pool formation in *Escherichia coli*, 1962, **26,** 292–335
Anatomy of bacterial surface, 1961, **25,** 77–99
Anthrax, inhalation, pathogenesis of, 1961, **25,** 268–273
Antibody, fluorescent, for immunofluorescent staining, 1961, **25,** 49–76
— synthesis, at cellular level, 1959, **23,** 213–223
Antimicrobial factors, in tissues and phagocytic cells, 1960, **24,** 133–140
Arizona group, of *Enterobacteriaceae*, 1959, **23,** 155–174
Autotrophic bacteria, carbon dioxide fixation and substrate oxidation in, 1962, **26,** 168–175
— —, chemosynthesis in, 1962, **26,** 165–167
— —, comparative physiology of, 1962, **26,** 145–150
— —, definition of, 1962, **26,** 145–150
— —, photosynthesis in, 1962, **26,** 151–164
Avian tumor viruses, cell and organism response to, 1962, **26,** 1–13

Bacillus species, cell wall lysis and peptide release, 1959, **23,** 1–7
Bacteria, encapsulated, phagocytosis in, 1960, **24,** 41–47
—, lysogenic conversions in, 1959, **23,** 202–212
—, outgrowth of, 1959, **23,** 267–272
—, photosynthetic mechanisms of, 1961, **25,** 1–17
—, psychrophilic, 1959, **23,** 97–108
—, rumen, 1959, **23,** 125–153
Bacterial endotoxins, chemical composition, related to biological activity of, 1961, **25,** 427–436
— —, immunological aspects of host reaction to, 1961, **25,** 457–458
— —, increased nonspecific resistance to infection evoked by, 1961, **25,** 437–446
— —, metabolic effects on mammalian cells, 1961, **25,** 447–456
— fatty acids, methods for identification of, 1962, **26,** 421–447
— growth, energetics of, 1962, **26,** 95–107
— insecticides, 1960, **24,** 266–288
— interference, in nonspecific resistance to infection, 1960, **24,** 167–176
— metabolism of inorganic compounds, 1962, **26,** 14–15
— — — — —, hydrogen photosynthesis and alternative metabolic pathways in, 1962, **26,** 51–66
— — — — sulfur compounds, 1962, **26,** 67–94
— nitrogen fixation, legume root nodules in, 1960, **24,** 246–250
— species, origin of, 1960, **24,** 201–220
— surface, anatomy of, 1961, **25,** 77–99
— taxonomy, theoretical aspects of, 1962, **26,** 277–291
Bacteriocins and bacteriocin-like substances, 1962, **26,** 108–118
Bacterionema matruchotii, growth and biochemical characteristics of, 1961, **25,** 152–161
— —, physiological and biochemical characteristics of, 1961, **25,** 162–171
— — reproduction of, 1961, **25,** 142–151
Bacteriophage, synthesis of, effect of amino acid analogues on, 1962, **26,** 398–420
Bacteroids, of genus *Rhizobium*, 1962, **26,** 119–141
— — — — —, biochemical properties, 1962, **26,** 119–141
— — — — —, cytology of, 1962, **26,** 119–141
Biosynthesis, purine derivatives, 1960, **24,** 309–339
Blood stream, host mechanisms for removal of bacteria from, 1960, **24,** 50–66

Candida, genus, 1960, **24,** 397–416
Cell, biology of, modified by virus or antigens, 1959, **23,** 202–231
—, growth, changes in early phases of, 1959, **23,** 254–260
—, —, physiological aspects of, 1959, **23,** 261–266

— membrane, in metabolism of inorganic electrolytes, 1959, **23,** 175–201
—, metabolism, relation to infection with rickettsial and bacterial agents, 1960, **24,** 96–105
— wall, lysis and peptide release, 1959, **23,** 1–7
Cells, immunity, 1960, **24,** 67–95
—, mammalian, viral biosynthesis in, 1959, **23,** 224–231
Chemosynthesis, in autotrophic bacteria, 1962, **26,** 165–167
Chemosynthetic bacteria, metabolism of, 1962, **26,** 168–175
Chloramphenicol, 1961, **25,** 32–48
Clostridia, pathogenic, source and relative incidence of, 1962, **26,** 177–276
Clostridium bifermentans (*C. sordellii*), toxins of, 1962, **26,** 177–276
— *fallax*, toxins of, 1962, **26,** 177–276
— *histolyticum*, toxins of, 1962, **26,** 177–276
— *novyi*, toxins of, 1962, **26,** 177–276
— *perfringens*, toxins of, 1962, **26,** 177–276
— *septicum*, toxins of, 1962, **26,** 177–276
Coagulase, in staphylococcus infections, 1962, **26,** 375–381
Coccidioidomycosis, human, 1961, **25,** 310–320
Colicin, 1962, **26,** 108–118
Cytology, changes in early growth phases, 1959, **23,** 254–460

Differentiation, biochemical, intracellular turnover of protein and nucleic acids in, 1960, **24,** 289–308
Dormancy, in bacterial growth, 1959, **23,** 267–272
Dysproteinemias, host-parasite relationships in patients with, 1960, **24,** 115–132

Ectromelia, response of mice to, 1959, **23,** 61–95
Emerson effect, in photosynthesis, 1962, **26,** 151–164
Endotoxins, bacterial, immunological aspects of the host reaction to, 1961, **25,** 457–458
—, —, increased resistance to infection evoked by, 1961, **25,** 437–446
—, —, metabolic effects on mammalian cells, 1961, **25,** 447–456
—, —, relationship of chemical composition to biological activity of, 1961, **25,** 427–436
Enterobacteriaceae, Arizona group, 1959, **23,** 155–174
Escherichia coli, amino acid pool formation in, 1962, **26,** 292–335

Fatty acids, bacterial, 1962, **26,** 421–447
— —, —, methods for extraction of, 1962, **26,** 421–447
Fever, as mechanism of resistance to infection, 1960, **24,** 16–34
Fluorescent antibody, for immunofluorescent staining, 1961, **25,** 49–76

Gas gangrene, prophylaxis of, 1962, **26,** 177–276
Genetic effects, in nonspecific resistance to infectious disease, 1960, **24,** 192–200
— recombination, in origin of bacterial species, 1960, **24,** 201–220
Germination, bacterial, 1959, **23,** 267–272
Gram stain, and etiology of lobar pneumonia, historical note, 1960, **24,** 261–265
Growth, bacterial, adenosine triphosphate requirements in, 1962, **26,** 95–107
—, —, considerations on the energetics of, 1962, **26,** 95–107
—, —, influence of temperature on, 1962, **26,** 95–107
—, —, initiation of, 1959, **23,** 250–253
—, initiation, physiological aspects of, 1959, **23,** 261–266
Growth, microbial, effect of amino acid analogues on, 1962, **26,** 398–420

Halometabolites, microbial, origin and biochemistry of, 1961, **25,** 111–130
Hansenula genus, colony characteristics, 1962, **26,** 382–397
— —, ploidy of homothallic and heterothallic species, 1962, **26,** 382–397
—, phylogeny and biochemistry of genus, 1962, **26,** 382–397
Histoplasmosis, airborne, 1961, **25,** 301–309
Hormones, host resistance to infection and, 1960, **24,** 177–185
Host, mechanisms, in removal of bacteria from blood stream, 1960, **24,** 50–66
—, resistance, to infection, hormones in, 1960, **24,** 177–185
—, —, nutritional factors in infection, 1960, **24,** 186–191
—, —, relationship of viral interference to, 1960, **24,** 151–166
Host-parasite relationships, in patients with dysproteinemias, 1960, **24,** 115–132
Hyaluronidase, in staphylococcus infections, 1962, **26,** 382–397
Hydrogen, oxidation of, by chemosynthetic bacteria, 1962, **26,** 168–175
Hydroxylamine, bacterial metabolism of, 1962, **26,** 16–41

Immunity, against transplanted and spontaneous tumors, problems of, 1962, **26,** 336–353
—, cellular, 1960, **24,** 67–95
—, infectious disease, Metchnikoff's concepts of, 1959, **23,** 48–60
Immunofluorescent staining, fluorescent antibody method for, 1961, **25,** 49–76

Infection, airborne, critique of Conference on, 1961, **25,** 362–377
—, —, immunological aspects of inhalation of toxins in, 1961, **25,** 323–330
—, —, — — — reactions to inhaled antigens in, 1961, **25,** 331–346
—, —, public health aspects of, 1961, **25,** 347–358
—, —, viability and infectivity of microorganisms in, 1961, **25,** 182–187
—, bacterial, acquired resistance to, in insects, 1961, **25,** 100–110
—, fever as mechanism of resistance to, 1960, **24,** 16–24
—, inflammatory tissue, mobilization of defensive cells in, 1960, **24,** 3–15
—, nonspecific resistance to, defined, 1960, **24,** 2
—, relation of antibacterial systems of serum, and nonspecific immunity to, 1960, **24,** 106–114
—, — — cell metabolism to, with rickettsial and bacterial agents, 1960, **24,** 96–105
—, resistance to, influence of radiation on, 1960, **24,** 35–40
—, structure and function of respiratory tract in relation to, 1961, **25,** 219–227
—, viral-bacterial interaction in, 1961, **25,** 274–281
Infections, histotoxic clostridial, of man, 1962, **26,** 177–276
—, — —, — — clinical considerations, 1962, **26,** 177–276
—, — —, — —, diagnosis of, 1962, **26,** 177–276
—, — —, — —, pathology and pathogenesis of, 1962, **26,** 177–276
—, — —, — —, treatment of, 1962, **26,** 177–276
—, laboratory-acquired, 1961, **25,** 203–209
—, staphylococcus, 1962, **26,** 375–381
Infectious disease, genetic effects in nonspecific resistance to, 1960, **24,** 192–200
—, immunity, Metchnikoff's concepts of, 1959, **23,** 48–60
Influenza, pathogenesis of, 1961, **25,** 294–300
Inhalation anthrax, pathogenesis of, 1961, **25,** 268–273
Inhaled particles, distribution and deposition of, in respiratory tract, 1961, **25,** 237–240
Insecticides, bacterial, 1960, **24,** 266–288
Insect-microbe ecosystem, environmental factors affecting, 1960, **24,** 365–373
Insects, acquired resistance to bacterial infection in, 1961, **25,** 100–110
Intracellular distribution of fatty acids, 1962, **26,** 421–447
Invertase, of *Hansenula* species, 1962, **26,** 375–381
Ion exchange resins, use in microbiology, 1960, **24,** 251–260
Irradiation, influence on resistance to infection, 1960, **24,** 35–40

Laboratory airborne infection, control of, 1961, **25,** 210–216
Leptotrichia, classification of organisms so termed, 1961, **25,** 131–141
Leucocidin, in staphylococcus infections, 1962, **26,** 375–381
Lipids, bacterial, chemical nature of, 1962, **26,** 421–447
Lobar pneumonia, etiology, and Gram stain, historical note, 1960, **24,** 261–265
Lymphomatosis virus infection, resistance-inducing factor in, 1962, **26,** 1–13

Megacin, 1962, **26,** 108–118
Metabolism, bacterial, fatty acids in, 1962, **26,** 421–447
—, —, of inorganic compounds, 1962, **26,** 14–15
—, —, — — sulfur compounds, 1962, **26,** 67–94
—, —, of nitrate, nitrite, and hydroxylamine, 1962, **26,** 16–41
—, —, nitrogen fixation by enzyme preparations, 1962, **26,** 42–50
—, —, oxidation of sulfur compounds, 1962, **26,** 168–175
Metchnikoff concepts of immunity to infectious disease, 1959, **23,** 48–60
Microbial halometabolites, origin and biochemistry of, 1961, **25,** 111–130
Microorganisms, cell membrane in metabolism of inorganic electrolytes, 1959, **23,** 175–201
—, use in growth and morphogenesis studies, 1959, **23,** 8–17
Milk, bacteriological grading of, 1959, **23,** 41–47
—, reducing properties, in bacteriological grading of, 1959, **23,** 41–47
Morphogenesis, use of microorganisms in study of, 1959, **23,** 1–7
Mucociliary function, as protective mechanism in upper respiratory tract, 1961, **25,** 228–236
Mutation, respiration-deficient, in yeast and other microorganisms, 1961, **25,** 404–426

Nitrate, inorganic, bacterial metabolism of, 1962, **26,** 16–41
Nitrite, inorganic, bacterial metabolism of, 1962, **26,** 16–41
Nitrobacter, chemosynthesis in, 1962, **26,** 165–167
Nitrogen fixation, biochemical pathways in legume root nodule, 1960, **24,** 246–250
— — enzymes from *Clostridium pasteurianum*, 1962, **26,** 42–50
—, inorganic, bacterial enzyme preparation in metabolism of, 1962, **26,** 42–50
—, —, — metabolism of, 1962, **26,** 16–41
Nucleic acids, in biochemical differentiation, 1960, **24,** 289–308
Nutrition, factor in host resistance to infection, 1960, **24,** 186–191

"Pasteur. Achievements and disappointments, 1861," 1961, **25,** 389–403
Pasteurella pestis, in study of pneumonic plague, 1961, **25,** 249–261
— *tularensis*, aerosol infection of man with, 1961, **25,** 262–267
— — vaccines, viable (Soviet), 1962, **26,** 354–373
Peptide, release and cell wall lysis, in *Bacillus* species, 1959, **23,** 1–7
Pesticin, 1962, **26,** 108–118
Phagocytic cells, antimicrobial factors in, 1960, **24,** 133–140
Phagocytosis, in encapsulated bacteria, 1960, **24,** 41–49
Phosphomannans, of *Hansenula* genus, 1962, **26,** 382–397
Photometabolism of inorganic compounds, 1962, **26,** 51–66
Photophysical mechanism of photosynthesis, 1962, **26,** 151–164
Photoreduction, in bacterial metabolism of inorganic compounds, 1962, **26,** 51–66
Photosynthesis, of hydrogen, and alternative metabolic pathways in photosynthetic bacteria, 1962, **26,** 51–66
—, recent developments in, 1962, **26,** 151–164
Photosynthetic bacteria, metabolism of inorganic compounds in, 1962, **26,** 51–66
— mechanisms, in bacteria and plants, unitary concept of, 1961, **25,** 1–17
Phylogeny of *Hansenula* genus, 1962, **26,** 382–397
Pneumonic plague, 1961, **25,** 249–261
Poliomyelitis, factors influencing occurrence of illness in, 1960, **24,** 341–352
— vaccine, oral, 1961, **25,** 383–388
Polyoma virus infection, mouse epidemiology of, 1961, **25,** 18–31
Pool formation of amino acids, by *Escherichia coli*, 1962, **26,** 292–335
Poxvirus infection in the simian host, 1961, **25,** 459–476
Protein, in biochemical differentiation, 1960, **24,** 289–308
— synthesis, microbial, effect of amino acid analogues on, 1962, **26,** 398–420
Psychrophiles, 1959, **23,** 97–108
Public health, medical aspects of airborne infection and, 1961, **25,** 356–358
— —, physical aspects of airborne infection and, 1961, **25,** 347–355
Purines, biosynthesis and interconversion of, 1960, **24,** 309–339
Pyocin, 1962, **26,** 108–118

Q fever, airborne, 1961, **25,** 285–293

Resins, ion exchange, use in microbiology, 1960, **24,** 251–260
Respiration-deficient (RD) mutation, in yeast, 1961, **25,** 404–426
Respiratory tract, distribution and deposition of inhaled particles in, 1961, **25,** 237–240
— —, mucociliary function as protective mechanism in, 1961, **25,** 228–236
— —, structure and function, in relation to infection, 1961, **25,** 219–227
Rhizobium, bacteroids of, 1962, **26,** 119–141
Rous sarcoma virus, infection at cellular level, 1962, **26,** 1–13
Rumen, bacterial species of, 1959, **23,** 125–153
—, microbial ecology of, 1960, **24,** 353–364

Serum, antibacterial systems, relation to nonspecific immunity to infection, 1960, **24,** 106–114
—, inhibitors of virus, 1960, **24,** 141–150
Smallpox infection in the simian host, 1961, **25,** 459–476
Soviet viable *Pasteurella tularensis* vaccines, 1962, **26,** 354–373
Sphingolipids, of *Hansenula* species, 1962, **26,** 382–397
Staphylococci, aerial dissemination of, effects of viral infection on, 1961, **25,** 274–281
Staphylococcus aureus, antigenic properties of, 1960, **24,** 374–396
—, virulence factors of, 1962, **26,** 375–381
Sulfur, inorganic, comparative metabolism of, in microorganisms, 1962, **26,** 67–94
—, oxidation of, by chemosynthetic bacteria, 1962, **26,** 168–175

Taxonomy, bacterial, theoretical aspects of, 1962, **26,** 277–291
Thiobacilli, oxidation of reduced sulfur compounds by, 1962, **26,** 67–94
Tissues, antimicrobial factors in, 1960, **24,** 133–140
—, inflammatory, mobilization of defensive cells in, 1960, **24,** 3–15
—, inhibitors of virus, 1960, **24,** 141–150
Tryptophan synthetase, biosynthesis of, 1960, **24,** 221–245
Tuberculosis, airborne pulmonary, 1961, **25,** 243–248
Tumors, recent advances in study of, 1959, **23,** 18–40
—, spontaneous and induced, immunity against, 1962, **26,** 336–353

Vaccine, oral poliomyelitis, 1961, **25,** 383–388
Vaccines, Soviet viable *Pasteurella tularensis*, 1962, **26,** 354–373
Viral biosynthesis, mammalian cells, physiological conditions for study of, 1959, **23,** 224–231

— disease, evolution, at cellular level and in the organism, 1959, **23,** 109–124
— interference, relationship to host resistance, 1960, **24,** 151–166
Virus, avian tumor, response to infection with, 1962, **26,** 1–13
—, poliomyelitis, factors influencing occurrence of illness in naturally acquired infections, 1960, **24,** 341–352
—, polyoma, epidemiology of mouse infection, 1961, **25,** 18–31
—, recent advances in study of, 1959, **23,** 18–40
—, serum and tissue inhibitors of, 1960, **24,** 141–150
—, tumor, in spontaneous and transplanted tumors, 1962, **26,** 336–353
—, vaccinia, response of mice to, 1959, **23,** 61–95
Virus-host interactions, single-cell techniques in tracing, 1959, **23,** 232–249

Zymonic acid, of *Hansenula* species, 1962, **26,** 382–397